

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455021

Luminaire Tested: **GALN-SA6A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16109 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

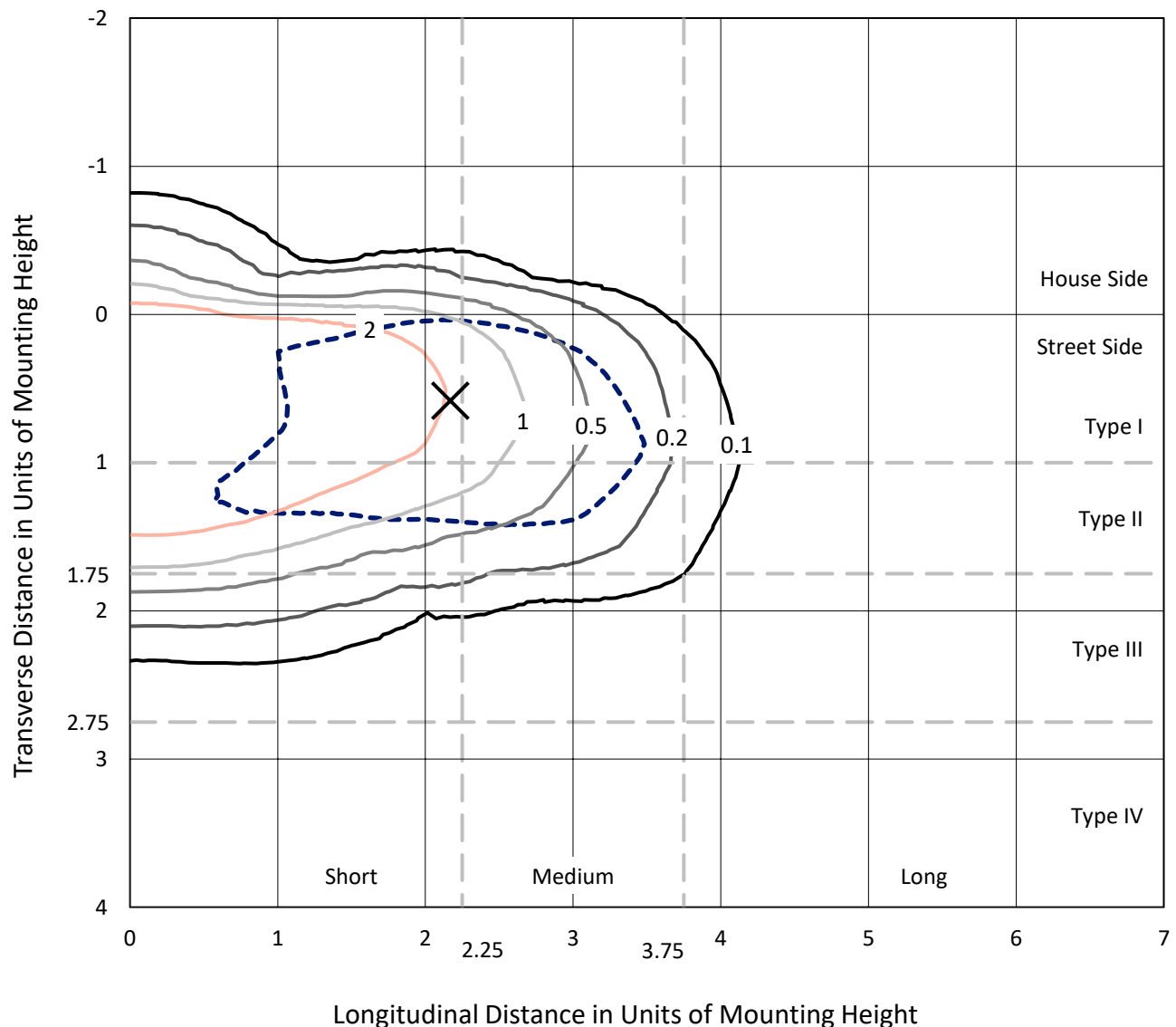


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



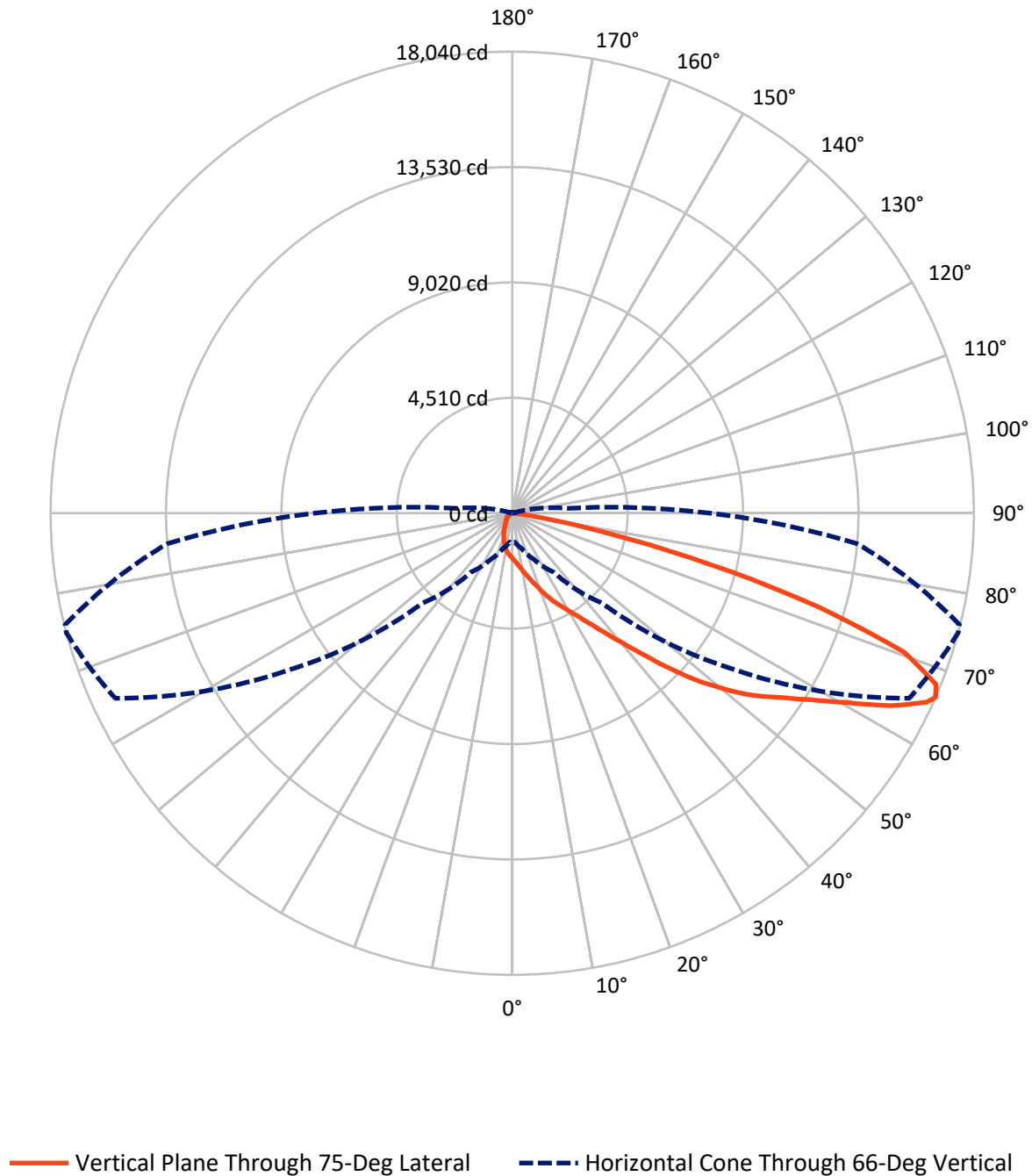
Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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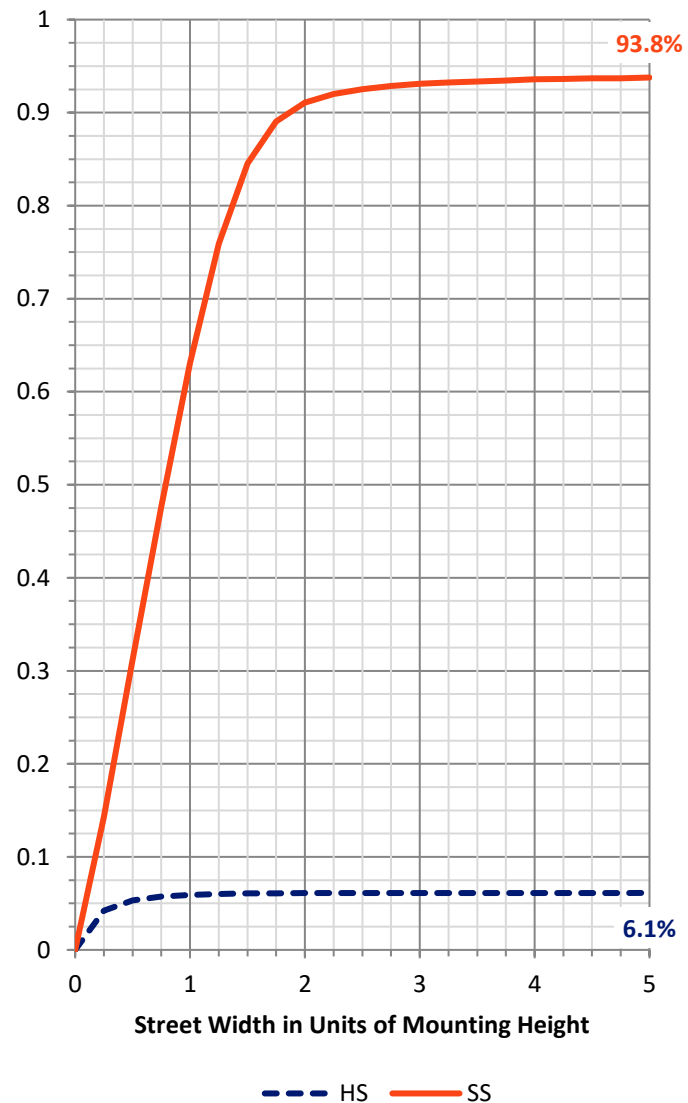
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.5	0.0	994.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15114.5	0.0	15114.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	16109.0	0.0	16109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.1
10°-20°	500.1	3.1
20°-30°	863.5	5.4
30°-40°	1557.6	9.7
40°-50°	2813.9	17.5
50°-60°	4386.8	27.2
60°-70°	4167.3	25.9
70°-80°	1561.8	9.7
80°-90°	88.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16109.0	100.0
0°-180°	16109.0	100.0



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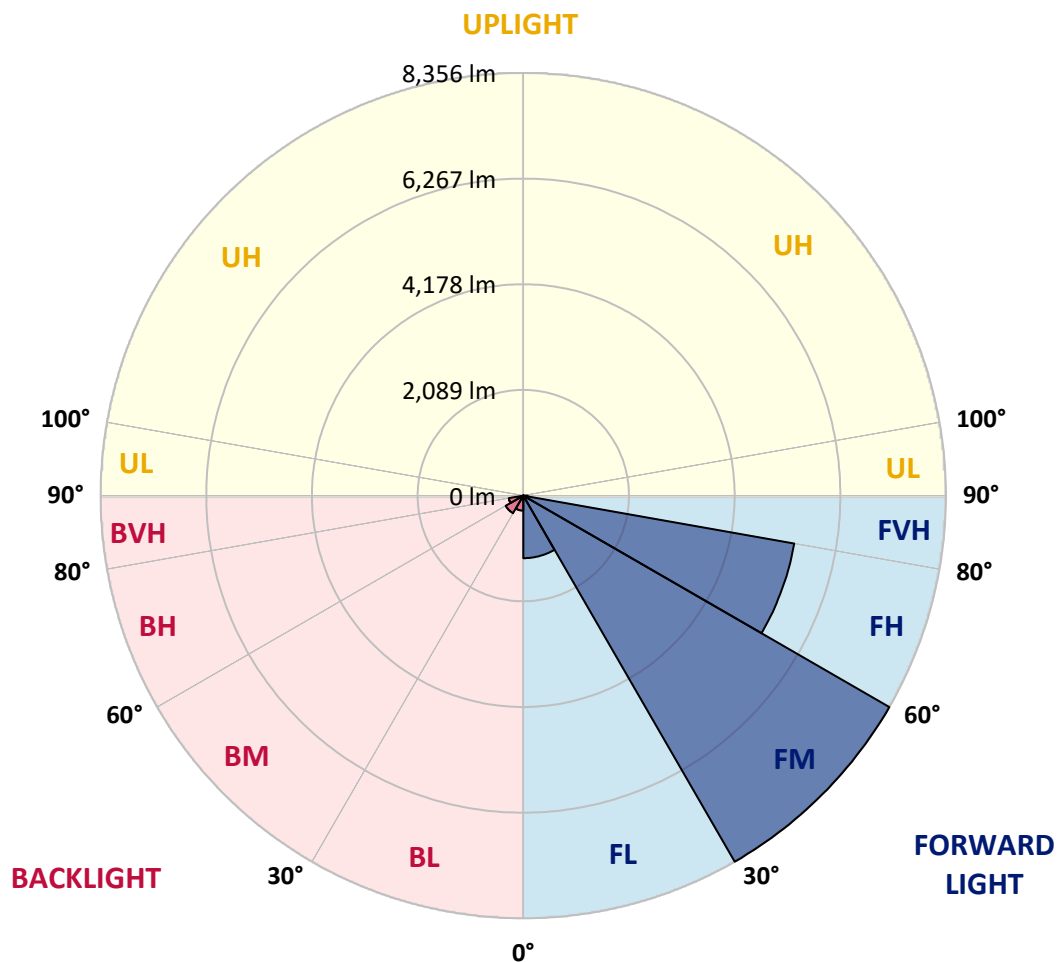
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1236.5	7.7			
FM	(30°-60°)	8355.7	51.9			
FH	(60°-80°)	5438.7	33.8			G3/7500
FVH	(80°-90°)	83.6	0.5			G1/100
BL	(0°-30°)	297.0	1.8	B1/500		
BM	(30°-60°)	402.5	2.5	B1/1000		
BH	(60°-80°)	290.4	1.8	B1/500		G1/500
BVH	(80°-90°)	4.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	2104.7	2078.5	2086.9	2074.9	2047.5	2007.1	1971.3	1920.1	1868.9	1860.5	1803.4
5°	2382.3	2375.1	2365.6	2331.0	2312.0	2250.0	2176.2	2088.0	1982.0	1963.0	1859.4
7.5°	2571.6	2568.1	2572.8	2555.0	2538.3	2482.3	2403.7	2283.4	2119.0	2108.3	1935.6
10°	2633.6	2643.1	2661.0	2689.6	2715.8	2697.9	2638.3	2488.3	2296.5	2265.5	2022.5
12.5°	2597.9	2608.6	2651.5	2727.7	2812.3	2861.1	2837.3	2727.7	2484.7	2459.7	2120.2
15°	2506.1	2519.2	2580.0	2697.9	2849.2	2987.3	3046.9	2968.3	2703.9	2663.4	2238.1
17.5°	2370.3	2389.4	2476.4	2632.4	2839.6	3077.9	3245.8	3219.6	2937.3	2899.2	2366.8
20°	2267.9	2282.2	2356.1	2534.7	2799.2	3127.9	3435.2	3509.1	3225.6	3160.1	2518.0
22.5°	2335.8	2340.6	2365.6	2472.8	2726.5	3141.0	3602.0	3810.4	3531.7	3473.3	2675.3
25°	2668.1	2620.5	2595.5	2571.6	2711.0	3129.1	3753.2	4124.9	3836.6	3774.7	2831.3
27.5°	3192.2	3170.8	3044.5	2875.4	2843.2	3144.6	3853.3	4422.7	4123.7	4057.0	2983.8
30°	3762.8	3725.8	3648.4	3400.7	3151.7	3254.2	3926.0	4712.1	4463.2	4375.0	3123.1
32.5°	4286.9	4310.7	4195.2	3940.3	3652.0	3487.6	4020.1	5027.8	4852.7	4743.1	3285.1
35°	4897.9	4945.6	4768.1	4523.9	4186.8	3909.3	4203.5	5383.9	5347.0	5208.8	3535.3
37.5°	5518.5	5547.1	5438.7	5095.6	4791.9	4445.3	4548.9	5823.4	5955.6	5837.7	3834.2
40°	6040.2	6079.5	5999.7	5694.8	5370.8	5065.9	5050.4	6302.3	6679.8	6558.4	4279.7
42.5°	6439.2	6469.0	6471.4	6255.8	5964.0	5825.8	5690.0	6913.3	7587.5	7446.9	4796.7
45°	6943.1	6986.0	6961.0	6814.4	6596.5	6571.5	6501.2	7651.8	8673.8	8496.3	5467.3
47.5°	7722.1	7750.7	7688.7	7516.0	7294.5	7333.8	7292.1	8479.6	9781.5	9629.1	6161.7
50°	8262.9	8310.5	8398.6	8467.7	8306.9	8161.6	8037.7	9252.7	10833.3	10696.3	6871.6
52.5°	8256.9	8335.5	8614.2	8962.0	9313.4	9269.4	8913.2	10106.7	11837.4	11668.3	7538.6
55°	7700.6	7853.1	8262.9	8879.9	9853.0	10337.8	10175.8	11095.4	12704.6	12590.2	8311.7
57.5°	6552.4	6645.3	7214.7	8077.0	9551.7	10840.5	11638.5	12435.4	13744.4	13690.8	9512.3
60°	4407.2	4448.9	5181.4	6247.5	8131.8	10339.0	12710.5	14056.5	15024.9	14998.7	10914.3
62.5°	2525.2	2543.1	3074.3	3973.6	5786.5	8761.9	12801.1	16056.4	16560.3	16574.5	12536.6
65°	1359.1	1368.6	1797.4	2332.2	3521.0	6245.1	11511.1	17152.2	17801.4	17828.8	13541.9
66°	1173.3	1128.0	1430.5	1988.0	2801.5	4970.6	10695.1	17112.9	18039.6	18009.9	13506.2
67.5°	892.2	932.7	1142.3	1528.2	2076.1	3534.1	8829.8	16351.8	17858.6	17765.7	12957.1
70°	638.4	655.1	813.5	1089.9	1413.9	1939.2	5642.4	13581.2	16231.5	16106.4	11288.3
72.5°	412.1	430.0	576.5	788.5	1022.0	1058.9	3158.9	9812.5	12514.0	12496.1	8501.1
75°	294.2	310.9	381.2	564.6	768.3	655.1	1521.1	6613.1	7955.5	7901.9	5258.8
77.5°	213.2	221.5	254.9	369.2	549.1	469.3	705.1	3531.7	3960.5	4147.5	2323.9
80°	122.7	129.8	177.5	225.1	371.6	320.4	337.1	1417.4	1461.5	1391.2	726.6
82.5°	60.7	69.1	106.0	153.7	232.3	215.6	154.8	426.4	450.2	438.3	183.4
85°	14.3	17.9	59.6	101.2	113.2	96.5	75.0	125.1	154.8	151.3	70.3
87.5°	1.2	2.4	21.4	17.9	19.1	32.2	26.2	32.2	50.0	46.5	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1777.2	1754.5	1689.0	1624.7	1571.1	1515.1	1463.9	1434.1	1422.2	1409.1	1415.1
5°	1802.2	1747.4	1615.2	1500.8	1388.9	1293.6	1217.3	1168.5	1144.7	1141.1	1135.1
7.5°	1835.5	1741.4	1536.6	1357.9	1211.4	1105.4	1018.4	948.1	926.7	907.6	892.2
10°	1876.0	1730.7	1438.9	1207.8	1051.8	918.4	804.0	720.6	677.8	665.8	674.2
12.5°	1918.9	1710.5	1336.4	1069.6	889.8	719.4	613.4	571.7	559.8	555.1	556.3
15°	1961.8	1685.4	1229.2	936.2	708.7	574.1	525.3	514.6	509.8	507.4	505.0
17.5°	2001.1	1644.9	1108.9	806.4	574.1	490.7	472.9	463.3	453.8	450.2	444.3
20°	2047.5	1598.5	1000.5	661.1	486.0	444.3	422.9	405.0	390.7	381.2	380.0
22.5°	2091.6	1538.9	887.4	547.9	443.1	399.0	364.5	345.4	328.8	316.8	320.4
25°	2115.4	1466.3	786.1	477.6	403.8	353.8	315.6	291.8	274.0	268.0	266.8
27.5°	2115.4	1376.9	687.3	437.1	368.1	313.3	274.0	251.3	239.4	231.1	232.3
30°	2098.8	1278.1	595.6	406.2	337.1	277.5	240.6	220.4	210.8	204.9	203.7
32.5°	2085.7	1184.0	516.9	376.4	304.9	246.6	214.4	198.9	189.4	183.4	183.4
35°	2105.9	1103.0	456.2	346.6	275.2	222.7	194.2	179.9	170.3	165.6	164.4
37.5°	2159.5	1029.1	409.7	314.5	247.8	202.5	179.9	163.2	153.7	147.7	145.3
40°	2291.7	987.4	375.2	284.7	221.5	185.8	163.2	147.7	135.8	129.8	128.6
42.5°	2503.8	988.6	341.9	257.3	201.3	171.5	148.9	131.0	117.9	112.0	110.8
45°	2823.0	1033.9	315.6	231.1	183.4	156.0	133.4	114.3	102.4	96.5	96.5
47.5°	3205.3	1122.0	293.0	208.4	166.8	141.7	117.9	98.9	87.0	82.2	82.2
50°	3619.8	1236.4	270.4	184.6	152.5	126.3	101.2	85.8	76.2	72.7	72.7
52.5°	4042.7	1374.6	247.8	165.6	137.0	109.6	87.0	76.2	67.9	65.5	64.3
55°	4597.8	1550.8	223.9	145.3	120.3	94.1	77.4	66.7	57.2	53.6	52.4
57.5°	5451.8	1816.5	197.7	127.5	98.9	78.6	66.7	56.0	45.3	39.3	38.1
60°	6482.1	2140.5	170.3	112.0	79.8	64.3	53.6	42.9	33.4	26.2	25.0
62.5°	7446.9	2346.5	144.1	94.1	63.1	48.8	38.1	32.2	23.8	16.7	15.5
65°	7873.4	2277.4	119.1	76.2	50.0	34.5	25.0	22.6	14.3	7.1	6.0
66°	7731.6	2175.0	109.6	69.1	45.3	29.8	21.4	19.1	10.7	3.6	3.6
67.5°	7313.5	1933.2	95.3	59.6	39.3	23.8	16.7	14.3	6.0	1.2	0.0
70°	6266.5	1564.0	75.0	44.1	28.6	16.7	9.5	7.1	3.6	0.0	0.0
72.5°	4813.3	1164.9	59.6	33.4	20.2	9.5	4.8	2.4	3.6	0.0	0.0
75°	2949.2	665.8	46.5	25.0	13.1	6.0	3.6	0.0	3.6	1.2	0.0
77.5°	1309.0	299.0	31.0	16.7	9.5	4.8	2.4	0.0	2.4	1.2	0.0
80°	331.1	97.7	17.9	11.9	7.1	3.6	1.2	0.0	2.4	2.4	1.2
82.5°	90.5	35.7	13.1	9.5	6.0	3.6	1.2	0.0	2.4	2.4	2.4
85°	35.7	16.7	11.9	9.5	7.1	3.6	1.2	0.0	2.4	2.4	2.4
87.5°	16.7	11.9	11.9	10.7	8.3	3.6	1.2	0.0	2.4	1.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)